

P **Agrimonia eupatoria**

Common Name(s)

Agrimony, Sticklewort

How Used

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| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|--|---------|----------|--------|-----------|---|
| 0 | 1-BETA-2-ALPHA-3-BETA-19-ALPHA-TETRAHYDROXY-URS-12-EN-28-OIC-ACID Root | 240 | 240 | | | |
| 0 | 1-BETA-2-BETA-3-BETA-19-ALPHA-TETRAHYDROXY-URS-12-EN-28-OIC-ACID Root | 15 | 15 | | | |
| 1 | AFZELIN | Shoot | 16.2 | 16.2 | -1 | |
| 0 | AGRIMOL-A | Plant | -- | -- | | |
| 0 | AGRIMOL-B | Plant | -- | -- | | |
| 0 | AGRIMOL-C | Plant | -- | -- | | |
| 0 | AGRIMOL-D | Plant | -- | -- | | |
| 0 | AGRIMONOLIDE | Plant | -- | -- | | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| 5 | AGRIMOPHOL | Bud | 7900 | 7900 | | |

| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|-------------------------------|---------|----------|--------|--|---|
| 10 | ALPHA-AMYRIN | Plant | -- | -- | List, P.H. and Horhammer, L., | Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 1 | AMYRIN | Plant | -- | -- | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. | Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| 101 | APIGENIN | Plant | -- | -- | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. | Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| 0 | APIGENIN-7-O-BETA-D-GLUCOSIDE | Plant | -- | -- | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. | |
| 0 | APIGENIN-GLUCOSIDE | Plant | -- | -- | | |

| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|------------------|---------|----------|--------|---------------------|--|
| 7 | ASTRAGALIN | Shoot | 22.5 | 23.6 | | |
| 47 | BETA-SITOSTEROL | Shoot | 25 | 25 | -0.9699561923388506 | |
| 102 | CAFFEIC-ACID | Plant | -- | -- | | |
| 43 | CATECHIN | Plant | 26000 | 26000 | | Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp. |
| 0 | CATECHIN-TANNIN | Leaf | -- | -- | | Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp. |
| 0 | CERYL-ALCOHOL | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 77 | CHLOROGENIC-ACID | Leaf | -- | -- | | Wealth of India. |
| 4 | COSMOSIIN | Shoot | -- | -- | | |

| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|---|---------|----------|--------|---------------------|--|
| 0 | COUMARINS | Plant | -- | -- | | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| 3 | CYNAROSIDE | Shoot | -- | -- | | |
| 51 | ELLAGIC-ACID | Leaf | -- | -- | | Wealth of India. |
| 0 | ELLAGIN-TANNIN | Leaf | -- | -- | | |
| 0 | ELLAGITANNINS | Shoot | -- | -- | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| 0 | EO | Plant | -- | 2000 | -0.5881321355977028 | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| 0 | EUSCAPHIC-ACID | Shoot | -- | 15 | | |
| 0 | EUSCAPHIC-ACID-28-BETA-D-GLUCOPYRANOSYL-ESTER | Shoot | -- | 15 | | |

| Chemical Plant Part | | Low PPM | High PPM | StdDev | Reference | Citation |
|---------------------|----------------------------------|------------------|----------|--------|----------------------|--|
| 0 | FAT | Seed | 350000 | 350000 | 0.44568382272451457 | Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp. |
| 61 | FERULIC-ACID | Plant | -- | -- | | |
| 2 | GALLO-TANNIN | Root | -- | -- | | |
| 0 | GALLOTANNINS | Shoot | -- | -- | | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| 8 | GENTISIC-ACID | Plant | -- | -- | | |
| 0 | HOMOPROTOCATECHUIC-ACID | Plant | -- | -- | | |
| 30 | HYPEROSIDE | Flower | 3700 | 3700 | -0.4084728900337644 | |
| 0 | ISOPULEGOLE | Leaf Essent. Oil | -- | -- | | Jim Duke's personal files. |
| 0 | ISOPULEGOLE-ACETATE | Leaf Essent. Oil | -- | -- | | Jim Duke's personal files. |
| 22 | ISOQUERCITRIN | Inflorescence | 2100 | 2100 | | |
| 5 | KAEMPFERIDE | Shoot | 18.7 | 19 | | |
| 0 | KAEMPFERIDE-3-O-ALPHA-RHAMNOSIDE | Shoot | 10.6 | 10.6 | | |
| 75 | KAEMPFEROL | Shoot | 23.6 | 24 | -0.33987201397721156 | |

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|---------------------|---|---------------------|----------|--------|---|----------|
| 0 | KAEMPFEROL-3-O-GLUCOSIDE | Shoot | -- | 22 | | |
| 0 | KAEMPFEROL-3-O-RUTINOSIDE | Shoot | -- | 20 | | |
| 0 | KAEMPFEROL-3-O-RUTINOSIDE | Shoot | 20 | 25.5 | | |
| 2 | KAEMPFEROL-3-RHAMNOSIDE | Shoot | 16.3 | 16 | | |
| 0 | LEUCANTHOCYANINS | Plant | -- | -- | Wealth of India. | |
| 78 | LUTEOLIN | Plant | -- | -- | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. | |
| 7 | LUTEOLIN-7-GLUCOSIDE | Plant | -- | -- | Wealth of India. | |
| 0 | LUTEOLIN-GLUCOSIDE | Plant | -- | -- | | |
| 0 | N-1-N-5-N-10-TRI-TRANS-4-COUMAROYL-SPERMIDINE | Flower | -- | -- | | |
| 0 | NEOISOPULEGOLE | Leaf Essent. Oil | -- | -- | Jim Duke's personal files. | |
| 2 | NICOTINAMIDE | Leaf | 100 | 300 | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. | |
| 25 | P-COUMARIC-ACID | Plant | -- | -- | | |

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|---------------------|---------------------------|---------|----------|--------|--|--|
| 13 | P-HYDROXY-BENZOIC-ACID | Plant | -- | -- | | |
| 13 | PALMITIC-ACID | Plant | -- | -- | List, P.H. and Horhammer, L., | Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 0 | POLYSACCHARIDES | Shoot | 195000 | 200000 | | |
| 43 | PROTOCATECHUIC-ACID | Plant | -- | -- | | |
| 176 | QUERCETIN | Shoot | -- | -- | | |
| 176 | QUERCETIN | Plant | -- | -- | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. | |
| 0 | QUERCETIN-3-O-GALACTOSIDE | Plant | -- | -- | Wealth of India. | |
| 0 | QUERCETIN-3-RHAMNOSIDE | Plant | -- | -- | Wealth of India. | |

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|---------------------|---------------------|---------------|----------|--------|-----------|--|
| 0 | QUERCETIN-GLUCOSIDE | Plant | -- | -- | | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| 44 | QUERCITRIN | Leaf | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 44 | QUERCITRIN | Flower | -- | -- | | |
| 0 | ROSAMULTIN | Root | 250 | 250 | | |
| 87 | RUTIN | Leaf | -- | -- | | Wealth of India. |
| 87 | RUTIN | Inflorescence | 1700 | 1700 | | |
| 34 | SALICYLIC-ACID | Plant | -- | -- | | |
| 1 | SILICIC-ACID | Exocarp | 120000 | 120000 | | |
| 8 | STEARIC-ACID | Plant | -- | -- | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |

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|---------------------|---|---------|----------|--------|----------------------|---|
| 35 | TANNIN | Bark | -- | 52800 | -0.7722965656367389 | Wealth of India. |
| 35 | TANNIN | Leaf | 50000 | 80000 | -0.37271411437234203 | |
| 35 | TANNIN | Shoot | 30000 | 80000 | 1.6607008042164362 | |
| 31 | THIAMIN | Leaf | 2.4 | 2.4 | -1.2305530670420655 | Watt, J.M. and Breyer-Brandwijk, M.G. 1962. The Medicinal and Poisonous Plants of Southern and Eastern Africa. E. & S. Livingstone, Ltd. Edinburg & London. 1457 pp. |
| 0 | TORMENTIC-ACID-28-BETA-D-GLUCOPYRANOSYL-ESTER | Shoot | 18.7 | 19 | | |
| 0 | TRITERPENES | Plant | 15000 | 15000 | | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 89 | URSOLIC-ACID | Plant | 6000 | 6000 | -0.5090810752075852 | List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979. |
| 24 | VANILLIC-ACID | Plant | -- | -- | | |
| 0 | VIT-K | Plant | -- | -- | | Wealth of India. |